MPX 866 A Media Presentation Matrix Switcher

Description

The Extron MPX 866 A media presentation matrix switcher combines an 8-input by 6-output VGA matrix switcher, a 6-input by 6-output S-video and composite video matrix switcher, and a 14-input by 6-output audio matrix switcher in one box. The matrix switcher distributes any video input to any combination of video outputs (of the same format) and any audio input to any combination of audio outputs. The switcher can route multiple input/output configurations simultaneously.

Installation and Cabling

1. **Mounting —** If desired, mount the switcher in a standard 19" rack.
2. **Computer video group input and output connections —**

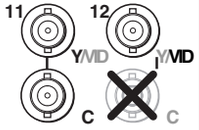
Inputs 1 through 8 — Connect a computer (RGB) video source to each input 15-pin HD connector.

Outputs 1 through 6 — Connect an RGB video device to each output 15-pin HD connector.

3. **Low resolution video group input and output connections —**

Composite video inputs 9 and 10 — Connect a **composite** video source to each input BNC connector.

NOTE *Input 9 is a timing reference for the entire low resolution video group. If one of the inputs is synced to a blackburst generator, connect that source to input 9.*

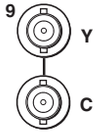


Inputs 11 through 14 — Connect a composite **or** S-video source to each set of input BNC connectors.

NOTE *Inputs 11 through 14 can be set to input either S-video or composite video. The default is composite. See* Select composite video or S-video *in the* Operations *section at right to set the input format for these inputs.*

Composite video outputs 7 and 8 — Connect a composite video device to each of these output BNC connectors.

NOTE *If the input tied to output 7 or 8 is S-video, the switcher encodes it to composite video. If the input is composite video, the switcher passes it straight through with no processing.*

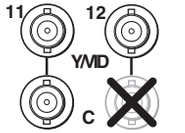


S-video outputs 9 and 10 — Connect an S-video device to each of these sets of output BNC connectors.

NOTE *If the input tied to output 9 or 10 is composite video, the switcher decodes it to S-video. If the input is composite video, the switcher passes it straight through.*

Pass-through video outputs 11 and 12 — Connect an S-video or a composite video device to these output BNC connectors.

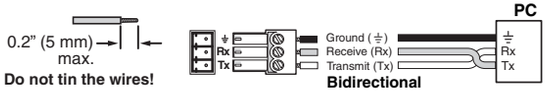
NOTE *The switcher passes the tied input to these outputs with no signal processing; an S-video input is tied as S-video, a composite video input is tied as composite video.*



4. **Audio input and output connections —** Connect balanced or unbalanced audio sources to each input 5-pole captive screw connector. Connect balanced or unbalanced audio devices to each output connector. See *Audio Connections*, at right, to wire the connectors.

CAUTION *Incorrect audio connector wiring can damage the switcher.*

5. **Remote port connection — If desired**, connect a remote host to either of the rear panel RS-232 serial ports. See the drawing below to wire the connector.



6. **Ethernet connection – If desired**, plug an RJ-45 connector into the Ethernet port to connect the switcher to a LAN/WAN or directly to a computer. For a network connection, wire the interface cable as a straight cable. For connection to a computer or control system, wire the interface cable as a crossover cable.

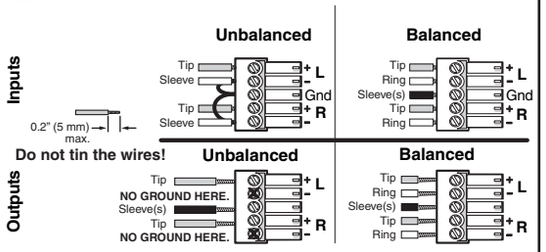
Default IP address: 192.168.254.254

7. **Power —** Connect an IEC AC power cord.

Audio Connections

Audio is input to and output from the switcher using captive screw connectors.

The examples below show two methods of wiring the captive screw audio connectors for input and output. If you are wiring a captive screw connector from an existing unbalanced audio cable, the white insulated wire is typically the left channel (tip) and the red insulated wire is typically the right channel (sleeve). There is no reliable standard for existing balanced audio cables.



CAUTION *Do not connect the sleeves to either the + or - terminal. Wiring errors or plugging the audio connectors incorrectly can damage the audio output circuits.*

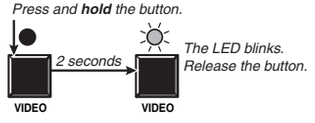
Operations

Legend: ○ = lit, ● = unlit, ☼ = blinking

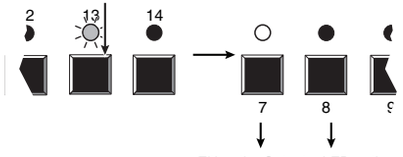
Select composite video or S-video

Low resolution video inputs 11 through 14 are individually configurable as either composite video or S-video. View and change this variable from the front panel as follows:

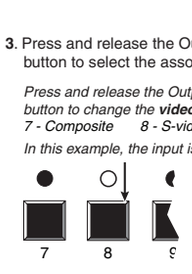
1. Press and **hold** the Video button for approximately 2 seconds.



2. Press and release one of inputs 11 through 14.



3. Press and release the Output 7 or Output 8 button to select the associated video format.

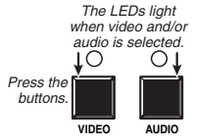

Press and release the Output 7 or Output 8 button to change the video format as follows:
7 - Composite
8 - S-video
In this example, the input is set to S-video.
7
8

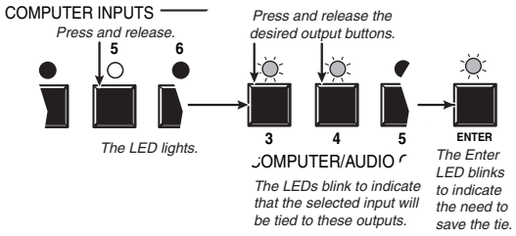
4. Press and release the Video button.

Operations (Continued)

Create tie(s)

1. Press the Esc button.
2. Press the Video and/or Audio button to select video and/or audio.
3. Press the desired input button.
4. Press the desired output button(s).

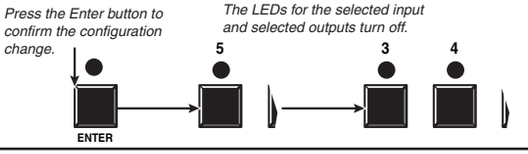




NOTE
- *Video ties cannot be made between the computer video group and the low resolution video group.*
- *Audio ties can be made only to the computer video/audio subgroup (outputs 1 through 6).*
- *Video and audio ties between the low resolution video input subgroup and the low resolution video output subgroup are always made with the audio broken away. In such an operation, the switcher automatically ties the audio to an output in the computer video/audio outputs subgroup (outputs 1 through 6) as follows:*
  - *Video tied to output 7 = audio tied to output 1.*
  - *Video tied to output 8 = audio tied to output 2.*
  - *Video tied to output 9 = audio tied to output 3.*
  - *Video tied to output 10 = audio tied to output 4.*
  - *Video tied to output 11 = audio tied to output 5.*
  - *Video tied to output 12 = audio tied to output 6.*

NOTE *If you push a wrong button, press the Esc button and start over.*

5. Press the Enter button.


Press the Enter button to confirm the configuration change.
ENTER
The LEDs for the selected input and selected outputs turn off.
5
3
4

View ties

1. Press the View button. All of the LEDs for outputs that are not tied light.

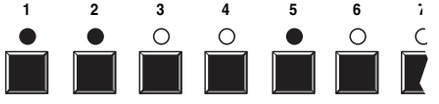
NOTE *If the audio LED blinks, audio is broken away (switched separately from video).*
If an output LED blinks, that output is muted. To toggle mute on and off, select ***either*** *Video only* ***or*** *Audio only (****not both****) and then press and* ***hold*** *the output button for 2 seconds.*

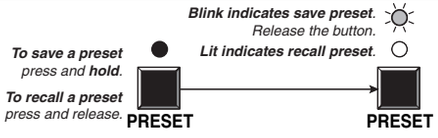
2. Press an input button. The LEDs for all tied outputs light. If no output LEDs light, no outputs are tied.
3. Press an output button. The LEDs for the tied input and all tied outputs light.
4. Press the View button. All input and output LEDs turn off.

Save or recall a preset

1. Use the Preset button to save or recall a preset:
   Save a preset — Press and **hold** the Preset button for 2 seconds.
   Recall a preset — Press and release the Preset button.

All input buttons with assigned presets light.
The configuration data at assigned preset locations will be overwritten.

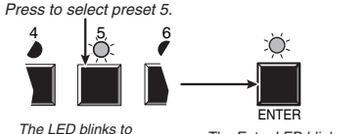



Blink indicates save preset. Release the button.
Lit indicates recall preset.
To save a preset press and hold.
To recall a preset press and release.
PRESET
PRESET

2. Press the appropriate input or output button to select the desired preset number.

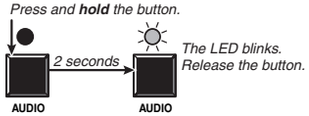
NOTE *Inputs 1 - 14 = presets 1 - 14*
Outputs 1 - 12 = presets 15 - 26.

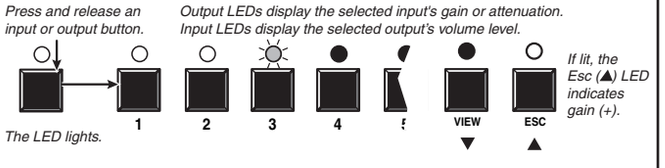
3. Press the Enter button. All input LEDs and the Enter LED turn off. The current configuration is saved at the selected preset location.


Press to select preset 5.
4
5
6
ENTER
The LED blinks to indicate that this preset is selected to save or recall.
The Enter LED blinks to indicate the need to activate the save or recall.

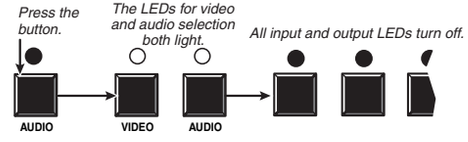
Adjust the audio level

1. Press and **hold** the Audio button for approximately 2 seconds.
2. Press and release the desired input button or output button.
   Press an **input** button to adjust that input's **audio level**. The **output LEDs** display the **gain or attenuation** level. The more lit or blinking LEDs, the greater the level. The View (▼) and Esc (▲) LEDs show attenuation (-) and gain (+).
   Press an **output** button to adjust that output's **volume**. The **input** LEDs display the **volume** level. The more lit or blinking LEDs, the greater the volume.
   Refer to the *MPX 866 A User's Manual*, #68-1270-01, chapter 3, *Operation,* to read the audio displays.





3. Press and release the View (▼) and Esc (▲) buttons to decrease or increase the audio level for the selected input or output by 1 dB per push of the button.
4. Press and release the Audio button to save changes and exit Audio mode.



www.extron.com

Extron Electronics, USA
1230 South Lewis Street
Anaheim, CA 92805
USA
714.491.1500
Fax 714.491.1517

Extron Electronics, Europe
Beeldschermweg 6C
3821 AH Amersfoort
The Netherlands
+31.33.453.4040
Fax +31.33.453.4050

Extron Electronics, Asia
135 Joo Seng Road, #04-01
PM Industrial Building
Singapore 368363
+65.6383.4400
Fax +65.6383.4664

Extron Electronics, Japan
Kyodo Building
16 Ichibancho
Chiyoda-ku, Tokyo 102-0082 Japan
+81.3.3511.7655
Fax +81.3.3511.7656

33-1422-01 **A**
08 06